DISCRETE MATHEMATICS
VOLUME 128, NUMBERS 1–3, 15 APRIL 1994

CONTENTS

M. Bolla and G. Tusnády
Spectra and optimal partitions of weighted graphs 1

O.V. Borodin
Simultaneous coloring of edges and faces of plane graphs 21

R. Calahan and R.B. Gardner
Bicyclic Steiner triple systems 35

V. Čepulić
On symmetric block designs (40, 13, 4) with automorphisms of order 5 45

J. Chen
Sharp bound of the kth eigenvalue of trees 61

J. Chen, J.L. Gross and R.G. Rieper
Overlap matrices and total imbedding distributions 73

R. Davis and C. Wagner
Covering algebras and q-binomial generating functions 95

A. Ehrenfeucht, T. Harju and G. Rozenberg
Incremental construction of 2-structures 113

H.-L. Fu and W.-H. Hu
Disjoint odd integer subsets having a constant odd sum 143

D.M. Gordon, R.W. Robinson and F. Harary
Minimum degree games for graphs 151

F. Harary and T.A. McKee
The square of a chordal graph 165

B.L. Hartnell and D.F. Rall
Bounds on the bondage number of a graph 173

A.J.W. Hilton and D. de Werra
A sufficient condition for equitable edge-colourings of simple graphs 179

X.-d. Hou
Classification of cosets of the Reed–Muller code $R(m-3,\ m)$ 203

R. Huang and G.-C. Rota
On the relations of various conjectures on Latin squares and straightening coefficients 225

G. Hurlbert
The antipodal layers problem 237

DISCRETE MATHEMATICS
VOLUME 128, NUMBERS 1–3, 15 APRIL 1994

CONTENTS

M. Bolla and G. Tusnády
Spectra and optimal partitions of weighted graphs 1

O.V. Borodin
Simultaneous coloring of edges and faces of plane graphs 21

R. Calahan and R.B. Gardner
Bicyclic Steiner triple systems 35

V. Čepulić
On symmetric block designs (40, 13, 4) with automorphisms of order 5 45

J. Chen
Sharp bound of the kth eigenvalue of trees 61

J. Chen, J.L. Gross and R.G. Rieper
Overlap matrices and total imbedding distributions 73

R. Davis and C. Wagner
Covering algebras and q-binomial generating functions 95

A. Ehrenfeucht, T. Harju and G. Rozenberg
Incremental construction of 2-structures 113

H.-L. Fu and W.-H. Hu
Disjoint odd integer subsets having a constant odd sum 143

D.M. Gordon, R.W. Robinson and F. Harary
Minimum degree games for graphs 151

F. Harary and T.A. McKee
The square of a chordal graph 165

B.L. Hartnell and D.F. Rall
Bounds on the bondage number of a graph 173

A.J.W. Hilton and D. de Werra
A sufficient condition for equitable edge-colourings of simple graphs 179

X.-d. Hou
Classification of cosets of the Reed–Muller code $R(m-3,\ m)$ 203

R. Huang and G.-C. Rota
On the relations of various conjectures on Latin squares and straightening coefficients 225

G. Hurlbert
The antipodal layers problem 237

A.V. Ivashchenko
Graphs of spheres and tori 247

H. Kimura
Classification of Hadamard matrices of order 28 with Hall sets 257

D. Kratsch, P. Damaschke and A. Lubiw
Dominating cliques in chordal graphs 269

M. Lepović
Some kinds of energies of graphs 277

Y. Miao
Existence of resolvable BIBDs with $k=5$ and $\lambda=4$ 283

A. Rosa and S. Znám
Packing pentagons into complete graphs: how clumsy can you get? 305

I. Sato
Isomorphisms and some graph coverings 317

C.P. Teo and K.M. Koh
On chromatic uniqueness of uniform subdivisions of graphs 327

T. van Trung
Some existence theorems for t-designs 337

T. Ueda
Graphs of nonsingular threshold transformations 349

L. Wang and S. Stueckle
Symmetries of drawings of sets of cycles and chromatiic automorphisms 361

G.-H. Zhang
Pseudo-one-factorizations of regular graphs of odd order — II. Products of graphs 371

Communication

A. Berrachedi
A new characterization of median graphs 385

Notes

R. Ahlswede and G. Simonyi
On the optimal structure of recovering set pairs of lattices: the sandglass conjecture 389

J. Bang-Jensen and P. Hell
On chordal proper circular arc graphs 395

G. Johns
A simple proof of the characterization of antipodal graphs 399

P. Solé and T. Zaslavsky
Maximality of the cycle code of a graph 401

M. Tkáč
On shortness coefficients of simple 3-polytopal graphs with only one type of faces besides triangles 407

M.-Y. Xu
Vertex-primitive digraphs of prime-power order are hamiltonian 415

Author index to volume 128 419